CENTRAL INTELLIGENCE ÂGENCY INFORMATION REPORT

SECRET

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OUNTRY	East Germany		REPORT		
UBJECT	Development of Point-Cor		DATE DISTR.	9 June 1955	
	Type Germanium Transisto	ors	NO. OF PAGES	3	
ATE OF INFO	O.		REQUIREMENT		
ACE ACQUI	RI		REFERENCES		25X1
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		This is UNEV	'ALUATED Informa	tion	2
	THE SOURCE EVA	ALUATIONS IN THIS REP PRAISAL OF CONTENT IS (FOR KEY SEE REVERS	S TENTATIVE.		 25X1
	Large-scale production of werk fuer Bauelemente de has not yet started. Ho production of zero-serie types are:	er Nachrichter	ntechnik, Teltov nterprise has be	(formerly Dralower en engaged in the	vid),
	a. lNC-10 through lNC- amplification factor	Ol2: Amplifi	ier transistors	with a maximum	
	b. 1NC-020 through 1NC- amplification factor	O22: Amplify	ving transistors	with a maximum	
	c. 2NC-010: Circuit tr	ansistor.			
	d. 3NC-010: Oscillator	transistor.			
	presents the successful	reduction of the zero-series of the transistor types mentioned re- resents the successful conclusion of the transistor development. reduction is supposed to start in the near future.			
	In April 1955, the enterprise organized a meeting of a large number of scientists and technicians and the use of transistors was explained to them in a lecture given by Dr. Matthias Falter, head of the Dralowid Research and Development Department. On this occasion, a radio receiver and loud-speaker circuit operated with transistors instead of tubes was successfully temonstrated.				
	Ten transistors of the 1: The following are the danated by A/OlO. The data the enterprise	ta on the ten	th of these tra	nsistors decir-	•
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(Note: Washington distribution indicated by "X"; Field distribution by "#".)

25 YEAR

RE-REVIEW

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Input resistance with open collector 230 Ohms Basis resistance 85 Ohms Output resistance with open emitter 14 kilo-ohms Transia resistance 17 kilo-ohms Current amplification 1.21 Voltage amplification 74 Short circuit stability 0.45 Performance amplification 14.7 decibels Limit frequency 0.55 MHz Collector voltage 30 colts 3.5 milli-amperes Collector current Emitter voltage 0.26 volt Emitter current l milli-amperes Favorable input resistance 200 Ohms Favorable output resistance 10 kilo-ohms Maximum collector voltage 42 volts Maximum collector dissipation 100 milli-volts Maximum emitter dissipation 10 milli-volts Maximum input alternating voltage 0.15 volt 40° Centigr Maximum ambient temperature Centigrade

As of early May 1955, the work of the Dralowid research and development team on the development of junction-type transistors had not progressed beyond the stage reached in November 1954, i.e. beyond the development of junction-type rectifiers from n-germanium and indium. Development of these rectifiers is considered to be an initial step in the development of junction-type transistors. Even the junction-type rectifiers so far developed are not functioning well and production of this type of rectifier has not yet started.

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